

| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified)   |  |   |                   | Docket No.<br>AMAT/3577.Y1/DS<br>M/BCVD/JW | Serial No.<br>09/336,525  |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|--|--|---|-------------------|--|---------------------------|-------------------------------------|-------------------------------------|-------------------|-----------------|------------|-------------------|-------|----------|----------------------------|--|--------------|------------|-----------------|-----|-----|------------|--|--------------|------------|----------|-----|-----|------------|--|--------------|------------|--------------|-----|-----|------------|--|--------------|------------|--------------|-----|-----|------------|--|--------------|------------|-----------------|-----|-----|------------|--|--------------|------------|----|-----|-----|------------|--|-----------------|------------|---------|-----|-----|------------|--|-----------------|------------|-------|-----|-----|------------|--|-----------------|------------|---------------|-----|-----|------------|--|-----|--|--|--|--|--|--|-----|--|--|--|--|--|--|-----|--|--|--|--|--|--|-----|--|--|--|--|--|
| <b>SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>  |  |   |                   | Applicant<br>Judy Huang                    | Confirmation No.:<br>7748 |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| (Use several sheets if necessary)  |  |   |                   | Filing Date<br>JUNE 18, 1999               | Group<br>1762             |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| <p style="text-align: center;"><i>SEP 04 2003</i></p> <p style="text-align: center;">PATENT &amp; TRADEMARK OFFICE</p> <p><b>U.S. Patent Documents</b></p> <table border="1"> <thead> <tr> <th>*Examiner Initial</th> <th>Document Number</th> <th>Issue Date</th> <th>Applicant(s) Name</th> <th>Class</th> <th>Subclass</th> <th>Filing Date If Appropriate</th> </tr> </thead> <tbody> <tr> <td></td> <td>A1 6,537,733</td> <td>03/25/2003</td> <td>Campana, et al.</td> <td>430</td> <td>313</td> <td>02/23/2001</td> </tr> <tr> <td></td> <td>A2 5,726,097</td> <td>03/10/1998</td> <td>Yanagida</td> <td>438</td> <td>622</td> <td>07/25/1995</td> </tr> <tr> <td></td> <td>A3 5,660,682</td> <td>08/26/1997</td> <td>Zhao, et al.</td> <td>438</td> <td>715</td> <td>03/14/1996</td> </tr> <tr> <td></td> <td>A4 5,656,337</td> <td>08/12/1997</td> <td>Park, et al.</td> <td>427</td> <td>539</td> <td>08/31/1994</td> </tr> <tr> <td></td> <td>A5 5,627,105</td> <td>05/06/1997</td> <td>Delfino, et al.</td> <td>438</td> <td>627</td> <td>04/08/1993</td> </tr> <tr> <td></td> <td>A6 5,232,871</td> <td>08/03/1993</td> <td>Ho</td> <td>437</td> <td>190</td> <td>06/03/1992</td> </tr> <tr> <td></td> <td>A7 2002/0182894</td> <td>12/05/2002</td> <td>Andideh</td> <td>438</td> <td>796</td> <td>05/30/2001</td> </tr> <tr> <td></td> <td>A8 2002/0054962</td> <td>05/09/2002</td> <td>Huang</td> <td>427</td> <td>533</td> <td>06/18/1999</td> </tr> <tr> <td></td> <td>A9 2002/0016085</td> <td>02/07/2002</td> <td>Huang, et al.</td> <td>438</td> <td>798</td> <td>06/10/2001</td> </tr> <tr> <td></td> <td>A10</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>A11</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>A12</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>A13</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |  |   |                   |  |                           |                                     |                                     | *Examiner Initial | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |  | A1 6,537,733 | 03/25/2003 | Campana, et al. | 430 | 313 | 02/23/2001 |  | A2 5,726,097 | 03/10/1998 | Yanagida | 438 | 622 | 07/25/1995 |  | A3 5,660,682 | 08/26/1997 | Zhao, et al. | 438 | 715 | 03/14/1996 |  | A4 5,656,337 | 08/12/1997 | Park, et al. | 427 | 539 | 08/31/1994 |  | A5 5,627,105 | 05/06/1997 | Delfino, et al. | 438 | 627 | 04/08/1993 |  | A6 5,232,871 | 08/03/1993 | Ho | 437 | 190 | 06/03/1992 |  | A7 2002/0182894 | 12/05/2002 | Andideh | 438 | 796 | 05/30/2001 |  | A8 2002/0054962 | 05/09/2002 | Huang | 427 | 533 | 06/18/1999 |  | A9 2002/0016085 | 02/07/2002 | Huang, et al. | 438 | 798 | 06/10/2001 |  | A10 |  |  |  |  |  |  | A11 |  |  |  |  |  |  | A12 |  |  |  |  |  |  | A13 |  |  |  |  |  |
| *Examiner Initial  | Document Number                                      | Issue Date  | Applicant(s) Name | Class                                      | Subclass                  | Filing Date If Appropriate          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A1 6,537,733   | 03/25/2003  | Campana, et al.   | 430  | 313                       | 02/23/2001                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A2 5,726,097   | 03/10/1998  | Yanagida          | 438  | 622                       | 07/25/1995                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A3 5,660,682   | 08/26/1997  | Zhao, et al.      | 438  | 715                       | 03/14/1996                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A4 5,656,337   | 08/12/1997  | Park, et al.      | 427  | 539                       | 08/31/1994                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A5 5,627,105   | 05/06/1997  | Delfino, et al.   | 438  | 627                       | 04/08/1993                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A6 5,232,871   | 08/03/1993  | Ho                | 437  | 190                       | 06/03/1992                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A7 2002/0182894                                      | 12/05/2002  | Andideh           | 438  | 796                       | 05/30/2001                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A8 2002/0054962                                      | 05/09/2002  | Huang             | 427  | 533                       | 06/18/1999                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A9 2002/0016085                                      | 02/07/2002  | Huang, et al.     | 438  | 798                       | 06/10/2001                          |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A10  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A11  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A12  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | A13  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| <b>Foreign Patent Documents</b>  |  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| *Examiner Initial  | Document Number                                      | Date  | Country           | Class                                      | Subclass                  | Translation                         |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  |  |   |                   |  |                           | YES                                 | NO                                  |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | B1 0 630 989 A2                                      | 06/21/1994  | EP                | C23C                                       | 16/44                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | B2 2 155 862 A                                       | 10/02/1985  | GB                | C23C                                       | 16/44                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | B3 06-204191   | 07/22/1994  | JP                | H01L                                       | 21/302                    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | B4 61-009579   | 01/17/1986  | JP                | C23C                                       | 22/00                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | B5 62-158859   | 07/14/1987  | JP (Abs.)         | C23C                                       | 14/02                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | B6 2-712-119   | 11/02/1994  | FR                | H01L                                       | 21/306                    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| <b>OTHER ART</b>   |  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| *Examiner Initial  | Including Author, Title, Date, Pertinent Pages, Etc. |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | C1   | U.S. Patent Application Number 09/657,392 filed on September 8, 2000 (AMAT/4479.Y1)               |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
|  | C2   | U.S. Patent Application Number 09/627,667 filed on July 28, 2000 (AMAT/4683) <i>cont'd review</i> |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| Examiner   | <i>JL Padgett</i>                                    |   |                   | Date Considered                            | <i>1/29/04</i>            |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p> <p><i>NOT I/P<br/>NOT supplied<br/>&amp; NO pre-pubs</i></p>  |  |   |                   |  |                           |                                     |                                     |                   |                 |            |                   |       |          |                            |  |              |            |                 |     |     |            |  |              |            |          |     |     |            |  |              |            |              |     |     |            |  |              |            |              |     |     |            |  |              |            |                 |     |     |            |  |              |            |    |     |     |            |  |                 |            |         |     |     |            |  |                 |            |       |     |     |            |  |                 |            |               |     |     |            |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |